



Joint Research Centre (JRC) cooperation activities with EaP Partner countries - support in Smart Specialisation Strategies

4th Informal Working Group
Meeting on Research and
Innovation

Tbilisi, Georgia

20 October 2022

Manuel GONZALEZ EVANGELISTA,

Economic and Policy Analyst

Territorial Development Unit – EC JRC



Smart Specialisation in Eastern Partnership



- Joint Communication: Eastern Partnership policy beyond 2020:

Reinforcing Resilience – an Eastern Partnership that delivers for all
- Economic and Investment Plan for the Eastern Partnership
- EU Membership applications from Ukraine, Moldova and Georgia
- Ukraine Recovery Plan (Lugano Declaration)
- Integrated into the national policies in Ukraine, Moldova and Georgia

Progress of the Smart specialisation in Eastern Partnership

EaP partner countries are following Smart Specialisation Framework for EU Enlargement and Neighbourhood Region (S3 Framework), developed by JRC in cooperation with partner countries, international experts and policy directorates of European Commission



JRC support to EU Enlargement and Neighbourhood Region



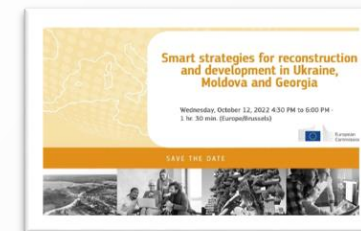
Capacity building

Targeted expert support



Methodologies and guidance

Knowledge-based cooperation



Knowledge Hub for EU Enlargement and Neighbourhood Region



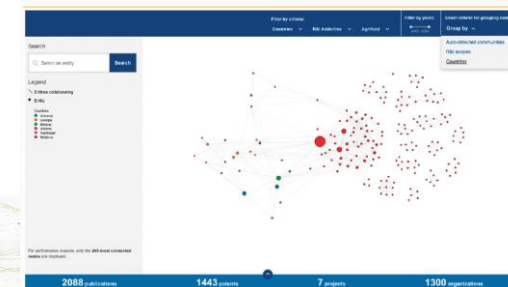
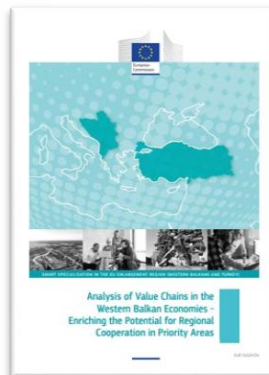
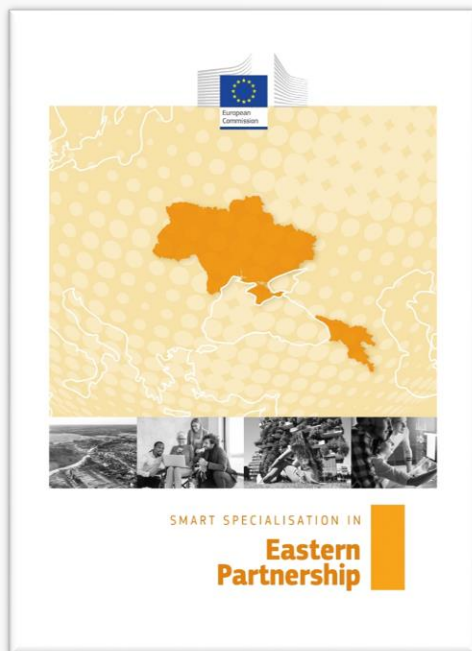
Region-wide analyses

Reports per economy

Guidebooks

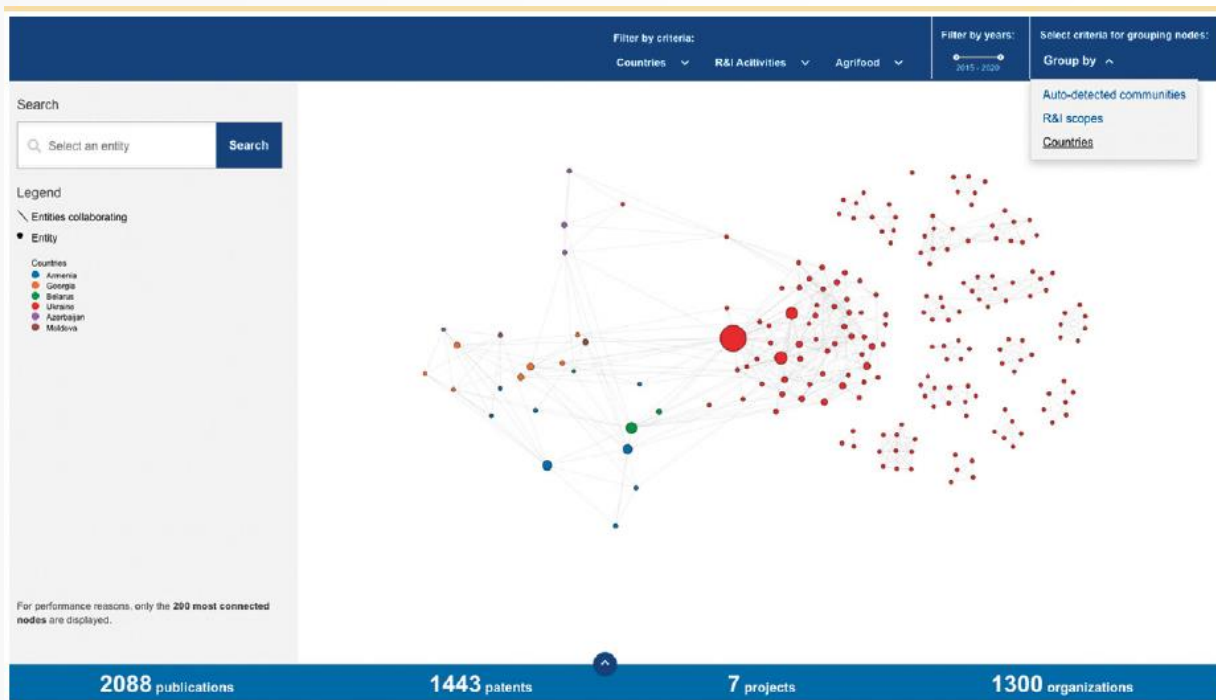
Massive Online Open Course

IT tool: STI cooperation network

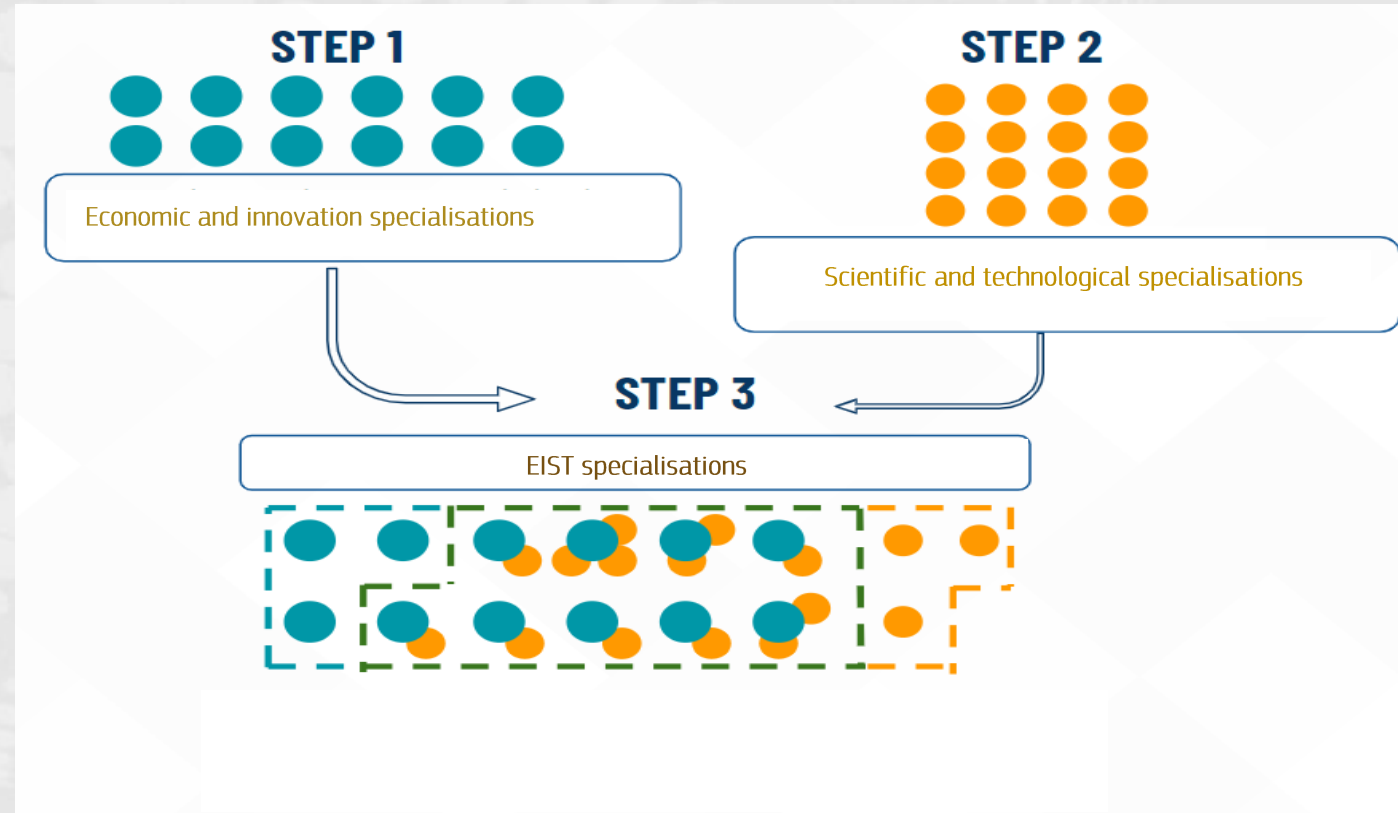


Knowledge Hub for EU Enlargement and Neighbourhood Region

IT tool: STI cooperation network



Highlights from our newest report : Potential for Smart Specialisation in Eastern Partnership Countries - knowledge-based economic cooperation



Highlights from our newest report: economic, innovative, scientific and technological potential in the region



Economic and Innovation potential

- Employment and turnover in NACE subsectors (Orbis and UNIDO)
- Exports of goods and services
- World Bank Enterprise Survey – data on innovation
- Patents (classes)
- VC and Startup database
- Clusters

Scientific and Technological potential

- Scientific publications – SCOPUS
- CORDIS: EU R&I projects (FP7 and H2020)
- Patents (text mining)

Key results: economic, innovative, scientific and technological potential in the region



Economic cluster	S&T domains	EaP countries						Coop. potential
		AM	AZ	GE	MD	UA		
Food Processing and Manufacturing	Agrifood	✓			✓	✓	✓	4
Chemical Products	Biotechnology		✓			✓		2
	Chemistry and chemical engineering		✓			✓		2
	Nanotechnology and materials		✓			✓		2
Metalworking Technology	Nanotechnology and materials				✓		✓	2
Information Technology and Analytical Instruments	Electric and electronic technologies	✓					✓	3
	ICT and computer science						✓	2
	Optics and photonics						✓	2
Communications Equipment and Services	ICT and computer science	✓				✓		2

Key results: economic, innovative, scientific and technological potential in the region



Figure IIIb. The most relevant S&T specialization domains by EaP countries

Most relevant S&T domains	Countries with high specialization in the domain
Agrifood	
Biotechnology	
Chemistry and chemical engineering	
Electric and electronic technologies	
Energy	
Environmental sciences and industries	
Fundamental physics and mathematics	
Health and wellbeing	
ICT and computer science	
Mechanical engineering and heavy machinery	
Nanotechnology and materials	
Optics and photonics	
Transportation	

Figure IV. Number of publications and EC projects in collaboration between EaP actors in different countries

Colour indicates the relative distribution of documents, computed row-wise.

	Armenia	Azerbaijan	Belarus	Georgia	Moldova	Ukraine
Armenia		130	1 471	1 756	42	980
Azerbaijan	130		49	73	26	138
Belarus	1 471	49		1 440	83	1 268
Georgia	1 756	73	1 440		58	1 058
Moldova	42	26	83	58		202
Ukraine	980	138	1 268	1 058	202	

Publications

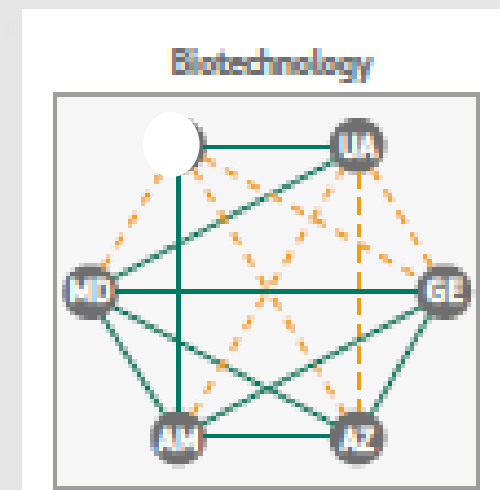
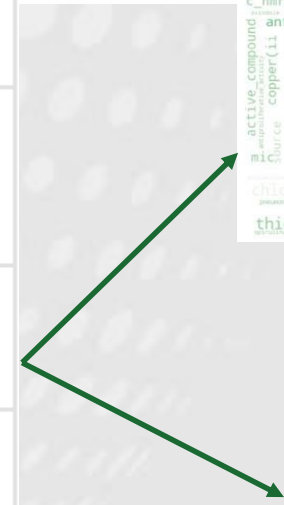
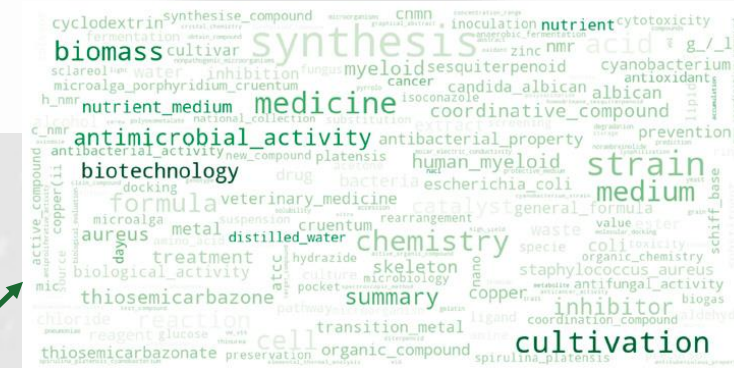
	Armenia	Azerbaijan	Belarus	Georgia	Moldova	Ukraine
Armenia		10	21	26	19	21
Azerbaijan	10		8	11	8	11
Belarus	21	8		20	17	33
Georgia	26	11	20		23	32
Moldova	19	8	17	23		25
Ukraine	21	11	33	32	25	

EC projects

Key results: economic, innovative, scientific and technological potential in the region



MOLDOVA		
Concordance between E&I analysis and S&T analysis		
Economic cluster	E&I domains (NACE sectors)	S&T domains
Food Processing and Manufacturing	10 Manufacture of food products 11 Manufacture of beverages	• Agrifood
Leather, Apparel & Footwear	13 Manufacture of textiles 14 Manufacture of wearing apparel 15 Manufacture of leather and related products	
Wood Products	16 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	• Chemistry and chemical engineering
Chemical Products	20 Manufacture of chemicals and chemical products	• Biotechnology • Chemistry and chemical engineering • Nanotechnology and materials
Communications Equipment and Services	61 Telecommunications	• ICT and computer science
Computer Programming, Information Services and Financial Services	62 Computer programming, consultancy and related activities 63 Information service activities 64 Financial service activities, except insurance and pension funding	



JRC, Smart Specialisation and EaP

... a long way ahead



- Continue the methodological support
- Next perspectives for new EU candidate countries
- Ukraine Recovery Plan (Lugano Declaration) – putting into practice
- Implementation of S3 and into the national policies in Ukraine, Moldova and Georgia
- Engage with more EaP partner countries.

Thank you for your attention

manuel.gonzalez-evangelista@ec.europa.eu

<https://s3platform.jrc.ec.europa.eu/neighbourhood>